

AccuLock™ R Consumables

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MIG (GMAW) Welding Consumables 

Quick Specs	Applications		System Components	Compatible With	Wire Sizes
		Automotive Rail Shipbuilding Fabrication	Heavy Equipment Truck and Trailer Manufacturing	Nozzles Gas Diffusers Contact Tips QUICK LOAD® Liners	TOUGH GUN® Robotic Air-Cooled Guns Tregaskiss® Robotic Water-Cooled Guns Tregaskiss® Fixed Automatic Guns

In robotic MIG welding applications, MIG gun consumables require frequent replacement, contributing to both planned and unplanned downtime. If you need to increase throughput and efficiency with minimal risk and effort, **it's time to take a fresh look at your MIG gun consumables.**

Load and Lock to Reduce Unplanned Downtime

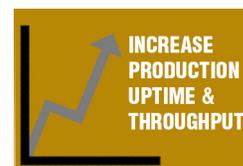
Challenged by a shortage of experienced welding operators? The longer lifespan of AccuLock contact tips means fewer human interactions within your welding cells and fewer accidental errors as a result. Plus, with tip cross-threading issues virtually eliminated from your list of failure modes, you'll **spend less time troubleshooting and more time on proactive weld quality and productivity initiatives.**

Load and Lock to Reduce Planned Downtime

Achieve your annual cost reduction and throughput goals by decreasing planned downtime for consumables replacement. AccuLock R consumables offer an enhanced contact tip-to-diffuser design which **increases tip life** over comparable consumables, reducing your replacement frequency. Upgrading from a copper tip to **AccuLock HDP contact tips can increase life by an additional 10x or more** depending on your application.

In most cases, your current tip and diffuser can be replaced with no impact to TCP, making this upgrade **low effort, low risk and high payoff.**

AccuLock™



AccuLock™ contact tips last longer and are quicker and easier to install



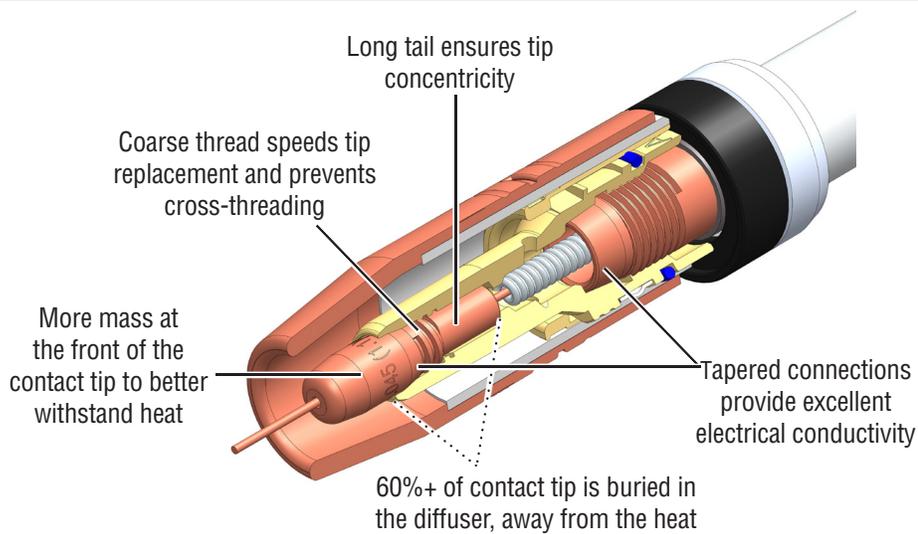
AccuLock™ contact tips can be used on robotic and semi-automatic MIG guns



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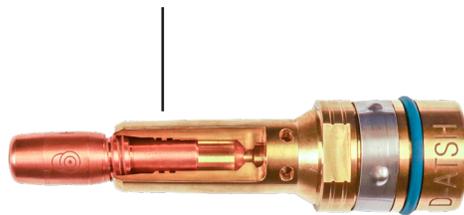
AccuLock™ R Consumables System



Virtually Eliminate Cross Threading

AccuLock contact tips have a long tail that concentrically aligns with the diffuser before the coarse threads engage. Together, this design makes AccuLock contact tips virtually impossible to cross thread, preventing downtime to troubleshoot weld problems and replace cross-threaded consumables.

Long tail concentrically aligns tip inside the diffuser before the coarse threads engage



The AccuLock R Consumable System is comprised of the following components:

- AccuLock R contact tips and tip tool (see page 4)
- AccuLock R gas diffusers (see page 5)
- AccuLock R nozzles — only 5/8" bore nozzles are currently available (see page 5)
- Optional Accessories — AccuLock R teach pointers (see page 5)
- QUICK LOAD® liners and retainers (see page 6)

Common Consumable Platform™

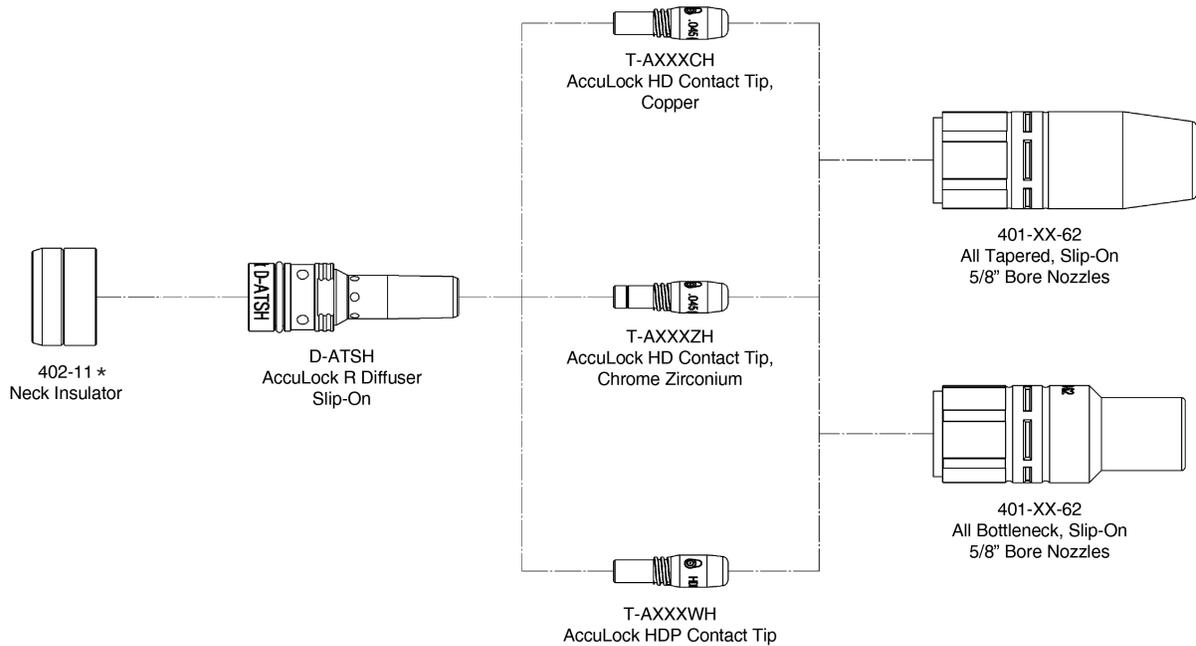
Tregaskiss® AccuLock™ R consumables and Bernard® AccuLock S consumables share a common contact tip. If you have a combination of robotic and semi-automatic guns in your facility, you'll benefit from the reduced costs and simplified inventory of a **common consumable platform**.

AccuLock™



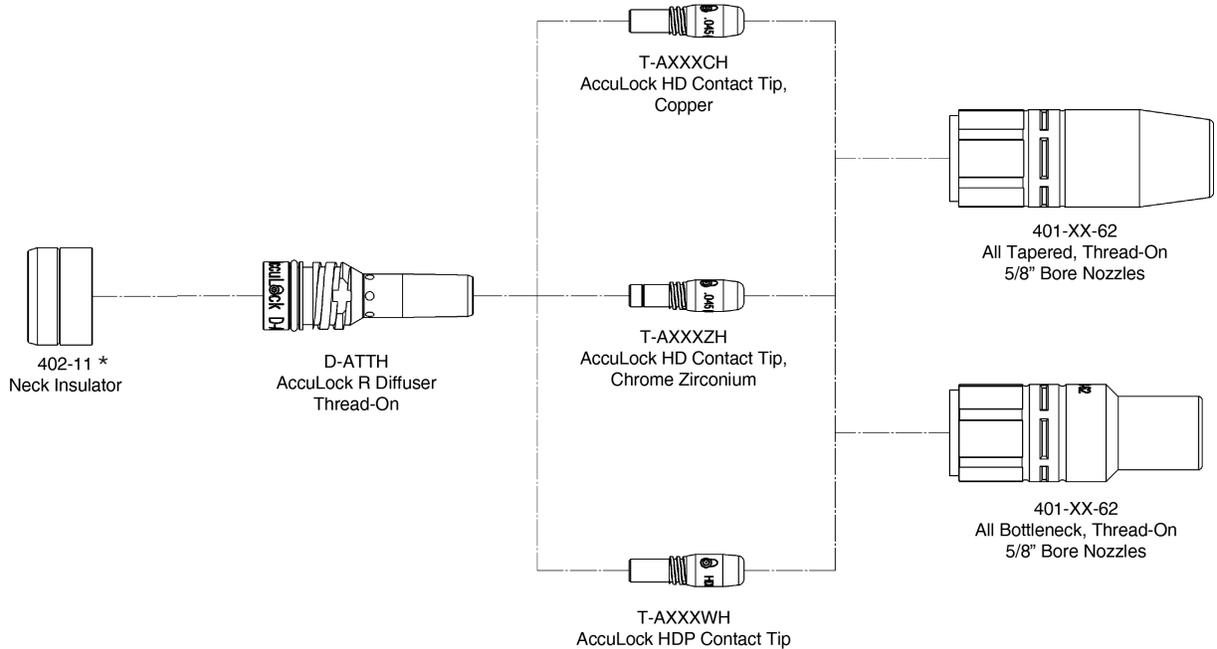
AccuLock™ R Consumables System

AccuLock R Consumables (Slip-On)



**For all Tregaskiss® robotic and automatic air-cooled MIG guns*

AccuLock R Consumables (Thread-On)



**For all Tregaskiss® robotic and automatic air-cooled MIG guns*

AccuLock™ Contact Tips

Heavy Duty (HD) Copper Contact Tips (Torque all AccuLock contact tips to 30 in.-lbs. (3.5Nm))

Part Number	Description	Qty	Part Number	Description	Qty	Part Number	Description	Qty
T-A030CH**	for 0.030" (0.8 mm)	10	T-A045CH**	for 0.045" (1.2 mm)	10	T-A072CH^	for 0.070" (1.8 mm)	10
T-A035CH**	for 0.035" (0.9 mm)	10	T-A052CH**	for 0.052" (1.3 mm)	10	T-A078CH^	for 5/64" (2.0 mm)	10
T-A039CH**	for 0.039" (1.0 mm)	10	T-A062CH^	for 1/16" (1.6 mm)	10	T-A094CH^	for 3/32" (2.4 mm)	10

^ add "-100" to the end of the above part numbers for quantities of 100.

** add "-1000" to the end of the above HD copper contact tip part numbers for quantities of 1000.

Heavy Duty (HD) Chrome Zirconium Contact Tips (Torque all AccuLock contact tips to 30 in.-lbs. (3.5Nm))

Part Number	Description	Qty	Part Number	Description	Qty
T-A030ZH	for 0.030" (0.8 mm)	10	T-A039ZH	for 0.039" (1.0 mm)	10
T-A035ZH	for 0.035" (0.9 mm)	10	T-A045ZH	for 0.045" (1.2 mm)	10

NOTE: add "-100" to the end of any of the above HD chrome zirconium contact tip part numbers listed for quantities of 100.

AccuLock Tip Tool

Part Number	Description	Qty
T-ALTOOL	Tip tool, AccuLock	1

HDP Contact Tips

Engineered with a special alloy that has superior resistance to arc erosion and wear, HDP tips last 6-10X longer than copper and chrome zirconium tips. You can enjoy all the benefits of pulse welding plus dramatically extended contact tip life for increased production throughput. Additional benefits include increased arc stability for improved weld quality and reduced spatter.



Part Number	Description	Qty	Part Number	Description	Qty
T-A035WH	for 0.035" (0.9 mm)	10	T-A045WH	for 0.045" (1.2 mm)	10
T-A039WH	for 0.039" (1.0 mm)	10	T-A052WH	for 0.052" (1.3 mm)	10

NOTE: add "-100" to the end of the above HDP contact tip part numbers for quantities of 100.

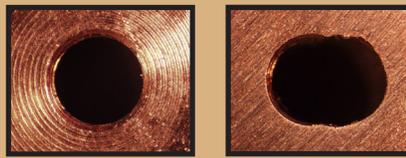
C122 Copper Tip



0 minutes
arc on time

120 minutes
arc on time

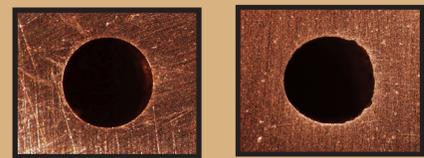
Chrome Zirconium Tip



0 minutes
arc on time

120 minutes
arc on time

HDP Tip



0 minutes
arc on time

120 minutes
arc on time

Test parameters: 120 minutes arc on time (20 min x 6 cycles), High Speed Pulse waveform, ER70S3 .045" Cu coated solid wire from bulk package (ER480S3 in Canada), 450 ipm wire feed speed, 40-45 ipm travel speed, 90/10 mixed gas, 240-260 average amps, Tregaskiss TOUGH GUN® CA3 Gun with 22 degree neck

AccuLock™ R Gas Diffusers

Heavy Duty (HD) Diffusers

Part Number	Description	Qty
D-ATTH*	Thread-on; for TOUGH GUN TA3 and CA3 robotic, MA1 automatic air-cooled, 500 amp MW1 automatic water-cooled, Auto Head fixed automatic air-cooled, and 400 amp T-Gun™ (compact series handle) and 450 amp T-Gun semi-automatic water-cooled guns	10
D-ATSH*	Slip-on; for TOUGH GUN TA3 and CA3 robotic, MA1 automatic air-cooled, 500 amp MW1 automatic water-cooled, Auto Head fixed automatic air-cooled, and 400 amp T-Gun™ (compact series handle) semi-automatic water-cooled guns	10
D-ATTH-RW1	Thread-on; for 600 amp robotic water-cooled guns	25
D-ATTH-MW1	Thread-on; for 600 amp MW1 fixed automatic water-cooled and 600 amp T-Gun semi-automatic water-cooled guns	25
D-ATSH-AW2	Slip-on; for AW2 fixed automatic water-cooled guns and 600 amp W-Gun™ semi-automatic water-cooled guns	25

*add "-100" to the end of the above gas diffusers part numbers for quantities of 100.

Tregaskiss® Nozzles

Air-Cooled Nozzles (Thread-On)

Part Number	Bore	Tip Position	Type	Material	O.D.	Qty	Reamer Cutter Blade
401-14-62	5/8"	1/8" recess	Tapered	Copper	1.062"	10	RCT-01
401-43-62	5/8"	1/8" recess	Tapered	Copper	0.938"	10	RCT-01
401-18-62	5/8"	1/8" stick out	Tapered	Copper	0.938"	10	RCT-01
401-20-62	5/8"	1/8" stick out	Tapered	Copper	1.062"	10	RCT-01
401-30-62T	5/8"	1/8" stick out	Bottleneck	Brass	0.938"	10	RCT-01

Air-Cooled Nozzles (Slip-On)

Part Number	Bore	Tip Position	Type	Material	O.D.	Qty	Reamer Cutter Blade
401-6-62	5/8"	1/8" recess	Tapered	Copper	1.062"	10	RCT-01
401-8-62	5/8"	1/8" stick out	Tapered	Copper	0.938"	10	RCT-01
401-4-62	5/8"	1/8" recess	Tapered	Copper	0.938"	10	RCT-01
401-5-62	5/8"	1/4" recess	Tapered	Copper	1.062"	10	RCT-01
401-48-62	5/8"	Flush	Bottleneck	Copper	1.062"	10	RCT-01
401-81-62	5/8"	1/8" stick out	Tapered	Copper	1.062"	10	RCT-01
401-7-62	5/8"	1/4" recess	Tapered	Brass	1.106"	10	RCT-01
401-71-62	5/8"	1/8" recess	Tapered	Brass	1.106"	10	RCT-01
401-87-62	5/8"	1/8" stick out	Tapered	Brass	1.062"	10	RCT-01
401-30-62	5/8"	1/8" stick out	Bottleneck	Brass	0.938"	10	RCT-01

AccuLock™ R Teach Pointers

Part Number	Description	Qty	Part Number	Description	Qty
T-A050TP	Teach pointer, 1/2"	1	T-A10MTP	Teach pointer, 10mm	1
T-A062TP	Teach pointer, 5/8"	1	T-A15MTP	Teach pointer, 15mm	1
T-A075TP	Teach pointer, 3/4"	1	T-A001TP	Teach pointer, adjustable	1

QUICK LOAD® Liners & Retainers

Select your wire size and gun length in the table below to find which QUICK LOAD Liner part number is needed for your application.

QUICK LOAD Liners

Wire Size	6 ft Length	10 ft Length	15 ft Length	25 ft Length	Description
0.023"	—	—	415-23-15Q	—	High Carbon Steel - Round Wound
0.030"	415-30-6Q	—	415-30-15Q	—	High Carbon Steel - Round Wound
0.035" - 0.045"	415-35-6Q	415-35-10Q	415-35-15Q	415-35-25Q	High Carbon Steel - Round Wound
0.045" - 1/16"	415-116-6Q	415-116-10Q	415-116-15Q	415-116-25Q	High Carbon Steel - Round Wound
1/16" - 5/64"	415-564-6Q	—	415-564-15Q	415-564-25Q	High Carbon Steel - Round Wound
0.078" - 3/32"	415-332-6Q	—	415-332-15Q	415-332-25Q	High Carbon Steel - Flat Wound

QUICK LOAD Pro Liners

Wire Size	6 ft Length	10 ft Length	15 ft Length	25 ft Length	Description
0.035" - 0.045"	415-35-062Q	—	—	—	Galvanized - D Wound (requires 415-26 retainer)
0.045" - 1/16"	415-116-062Q	—	—	—	Galvanized - D Wound (includes 415-31 retainer)

QUICK LOAD Liner Retainers; Required for initial installation (sold separately)

Wire Size	Part Number	Description
0.030" - 5/64"	415-26	QUICK LOAD Liner Retainer*
0.030" - 5/64"	415-37	QUICK LOAD Liner Retainer**
0.045" - 1/16"	415-31	QUICK LOAD Liner Retainer (required for 415-116-062Q)
0.078" - 3/32"	415-24	QUICK LOAD Liner Retainer*

*Compatible with Tregaskiss TOUGH GUN® Robotic and Automatic MIG Guns and Bernard BTB, TGX and Clean Air Semi-Automatic MIG Guns

**Compatible with most Tweco® MIG Guns

AccuLock® R Conversion Series

Add our AccuLock R Consumables to your Fronius® style MIG gun. See the chart below for parts needed to upgrade.

Gun Manufacturer	Gun Model	Gun Neck	AccuLock Conversion Diffuser	Neck Insulator	Adaptor
Fronius®	TPSi	Compatible with M12x1.0 thread	D-ATTH-F4C	Not applicable	Not applicable

Fronius is a registered trademark of Fronius® International

QUICK LOAD Liner AutoLength™ System

Pair your QUICK LOAD liner with an AutoLength pin to reap the benefits of the revolutionary QUICK LOAD liner AutoLength system. Minimize downtime, wire feeding and quality issues commonly associated with short liner length. For more information refer to [QUICK LOAD Liners & AutoLength Pins spec sheet](#)



Subject to Change – The information presented in this spec sheet is accurate to the best of our knowledge at the time of printing. Please visit Tregaskiss.com for the most up-to-date information.

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